

Activity 5

Volcanoes and the Atmosphere

Think About It

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- What else escapes from a volcano besides lava, rock and ash?



WHAT DO YOU THINK?

Activity 5

Volcanoes and the Atmosphere

Digging Deeper

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Learning Objective: **In writing, SWBAT examine the effects of gases emitted from volcanoes using academic language.**

Gases from
volcanoes

water vapor, carbon dioxide,
hydrogen chloride, and nitrogen

Carbon dioxide

is more dense than air, so it sinks
to the base of the volcano

High concentrations are
dangerous, causing people and
animals to suffocate

Acid rain

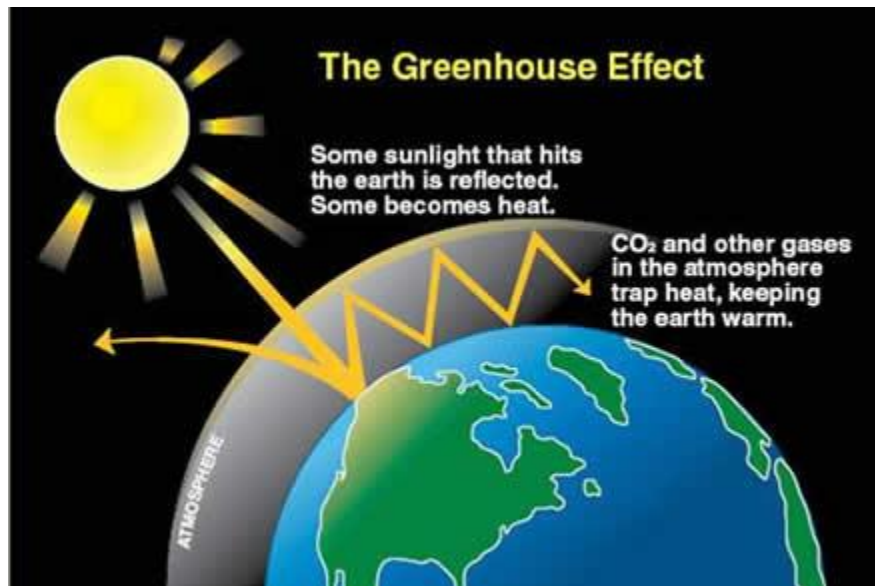
forms when sulfur gases from
volcanic eruptions mix with water
vapor in the atmosphere and create
sulfuric acid

Sulfuric acid falls with rain to
form acid rain

Acid rain damages plants and
other living things

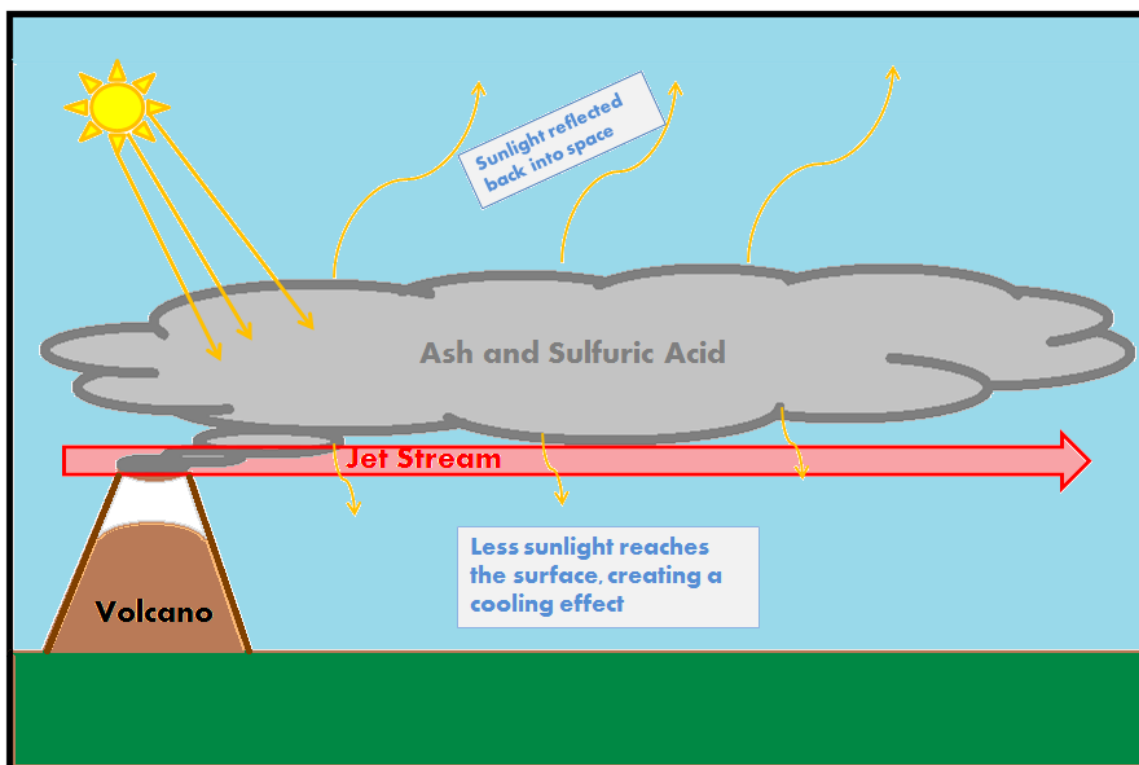
Volcanoes warm
the climate

increased levels of carbon
dioxide trap heat and warm the
atmosphere



Volcanoes cool
the climate

dust and debris thrown into the
atmosphere block out the sun,
cooling the climate



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Volcanoes and the Atmosphere
Check Your Understanding

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1. What types of gases escape from volcanoes?
2. Why is the release of carbon dioxide from a volcano hazardous?
3. How is acid rain formed from a volcanic eruption?
4. Do volcanic eruptions increase or decrease the temperature of the Earth? Explain.